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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/669,326	09/25/2003	Manabu Nakano	108075-00118	4139	
4372 7.	590 08/10/2005		EXAMINER		
ARENT FOX PLLC 1050 CONNECTICUT AVENUE, N.W.			SHIN, CHRISTOPHER B		
SUITE 400	CIICUI AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20036		2182		
			DATE MAILED: 08/10/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

K .					
<del></del>		Applic	ation No.	Applicant(s)	
		10/669	9,326	NAKANO, MANABU	
	Office Action Summary	Exami	ner	Art Unit	
			pher B. Shin	2182	
Period fo	The MAILING DATE of this comm r Reply	unication appears on	the cover sheet wit	h the correspondence address	
THE N - Exten after S - If the - If NO - Failur Any re	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMU sicions of time may be available under the provisions of time may be available under the provisions (SIX (6) MONTHS from the mailing date of this coperiod for reply specified above is less than thirty period for reply is specified above, the maximum to to reply within the set or extended period for reply received by the Office later than three monthed patent term adjustment. See 37 CFR 1.704(b)	NICATION. ons of 37 CFR 1.136(a). In no mmunication. (30) days, a reply within the statutory period will apply an ply will, by statute, cause the s after the mailing date of this	event, however, may a re statutory minimum of thirty d will expire SIX (6) MONT application to become ABA	ply be timely filed  (30) days will be considered timely.  "HS from the mailing date of this communication.  NNDONED (35 U.S.C. § 133).	
Status					
1)	Responsive to communication(s) f	iled on			
2a)□	This action is FINAL.	2b)⊠ This action i	s non-final.		
1	Since this application is in condition closed in accordance with the practice.		•	• •	
Disposition	on of Claims				
4)🖂	Claim(s) 1-17 is/are pending in the	e application.			
	4a) Of the above claim(s) is	• •	consideration.		
	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-17 is/are rejected.	•			
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to rest	riction and/or election	n requirement.		
Application	on Papers				
9)□ 7	The specification is objected to by	the Examiner.			
10)[] 7	Γhe drawing(s) filed on is/ar	e: a) accepted or	b) objected to b	y the Examiner.	
	Applicant may not request that any ob	jection to the drawing(	s) be held in abeyand	e. See 37 CFR 1.85(a).	
		=		s) is objected to. See 37 CFR 1.121(d).	
11)∐ 7	The oath or declaration is objected	to by the Examiner.	Note the attached	Office Action or form PTO-152.	
Priority u	nder 35 U.S.C. § 119				
12)⊠ A	Acknowledgment is made of a clair	n for foreign priority	under 35 U.S.C. §	119(a)-(d) or (f).	
a)[∑	☑ All b)☐ Some * c)☐ None of:				
	<ol> <li>Certified copies of the priori</li> </ol>	ty documents have b	een received.		
	<ol><li>Certified copies of the priorit</li></ol>	y documents have b	een received in Ap	plication No	
	3. Copies of the certified copie	s of the priority docu	ments have been r	received in this National Stage	
	application from the Internat	•	, ,,		
* S	ee the attached detailed Office act	ion for a list of the ce	ertified copies not r	eceived.	
Attachment(					
	of References Cited (PTO-892)	(BTO 048)		mmary (PTO-413) (Mail Date	
3) 🔯 Inform	of Draftsperson's Patent Drawing Review ation Disclosure Statement(s) (PTO-1449 No(s)/Mail Date <u>09252003</u> .			/Mail Date ormal Patent Application (PTO-152) -	
J.S. Patent and Tra PTOL-326 (Re		Office Action Sum	mary	Part of Paper No./Mail Date 08052005	

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## **DETAILED ACTION**

## Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. For example, the claimed invention is directed to switching between two interface converters according to a checking result.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. (2002/0081873).
  - a. As for claims 1-7, in figures 2 & 4, Harris et al. teaches all of the equivalent functions of converting USB standard and ATA or ATAPI standards. Furthermore, the Harris reference accomplishes conversion function that is identical to the claimed invention. However, the teachings of Harris reference does not describe in great details, but one skilled in the art can easily understand operations and functions of converting different standards, as claimed. For example, the bridge chip (100) comprehensively tech the functions and structures of the first, second & switching controller of the claimed invention.

Therefore, it would have been obvious at the time the invention was made to one having ordinary skill in the art to come up with the claimed invention from the teachings of Harris reference for the reasons stated above.

- b. As for claims 8-9, the limitations regarding the encoding, decoding and error correction code are not expressly disclosed by the Harris reference; however, such limitations are notoriously well known and commonly practiced technique in the art of data transfer system for maintaining error free reliability. The examiner takes official notice on such well/commonly known standard technique.
- c. As for the claims 13-15, due to similarity between the claims, the teachings of the claims 1-9 are similarly applied.
- d. Claims 10-12 and 16-17 are method version claims of that are substantially identical to the apparatus claims 1-9; therefore the teachings of claims 1-9 are similarly applied.
- 4. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deng et al. (2005/0060479).
  - e. As for claims 1-7, in figures 2 & 4, Deng et al. teaches all of the equivalent functions of converting USB standard and ATA or ATAPI standards.

    Furthermore, the Deng reference accomplishes conversion function that is identical to the claimed invention. However, the teachings of Deng reference does not describe in great details, but one skilled in the art can easily understand

operations and functions of converting different standards, as claimed. For

example, the bridge chip (100) comprehensively tech the functions and structures of the first, second & switching controller of the claimed invention.

Therefore, it would have been obvious at the time the invention was made to one having ordinary skill in the art to come up with the claimed invention from the teachings of Deng reference for the reasons stated above.

- f. As for claims 8-9, the limitations regarding the encoding, decoding and error correction code are not expressly disclosed by the Deng reference; however, such limitations are notoriously well known and commonly practiced technique in the art of data transfer system for maintaining error free reliability. The examiner takes official notice on such well/commonly known standard technique.
- g. As for the claims 13-15, due to similarity between the claims, the teachings of the claims 1-9 are similarly applied.
- h. Claims 10-12 and 16-17 are method version claims of that are substantially identical to the apparatus claims 1-9; therefore the teachings of claims 1-9 are similarly applied.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher B. Shin whose telephone number is 571-272-4159. The examiner can normally be reached on 6:30-5:00 M,Tu,Th,F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 5, 2005 CBS Christopher Shin Primary Examiner Of 2182